

## New Weather Bureau Publication

*Technical Paper No. 41*, "Meridional Cross-Sections, Upper Winds Over the Northern Hemisphere," H. L. Crutcher, U.S. Weather Bureau, Washington, D.C., 1961, 307 pp. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.; price \$4.25.

These cross-sections, in seasonal form for every  $10^\circ$  of longitude and from the 850-mb. surface to the 100-mb. surface, present an idea of the vertical distribution of the following selected wind statistics: Vector mean wind speed and direction and the vector standard deviation, scalar mean wind speed, the zonal mean wind speed and its standard deviation, the meridional mean wind speed and its standard deviation.

These charts supplement those of a previous Navy publication NAVAER 50-1C-535 "Upper Wind Statistics of the Northern Hemisphere," vols. I and II, Aug. 1959, in which the data are presented for constant pressure surfaces.